

Safety & Buildings Division
201 West Washington Avenue
P.O. Box 2658
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Wisconsin Building Products Evaluation

Material

Insul-Tarp
Under-Slab Reflective Insulation

Manufacturer

Insulation Solutions
401 Truck Haven
E. Peoria, IL 61611

SCOPE OF EVALUATION

GENERAL: This report evaluates the use of Insul-Tarp under-slab insulation, manufactured by Insulation Solutions. The under-slab insulation system was evaluated for use under heated floor slabs. To date there is no requirement for insulation under heated slabs-on-grade, nor under basement floors, for both the 1- and 2-family dwelling and commercial code. Both codes do address envelope material properties, vapor retarders (moisture control), and requirements for slab-on-grade floors (heated and non-heated):

The **Comm** requirements below in accordance with the current **Wisconsin Uniform Dwelling Code for 1- and 2-family dwellings**:

- **General Thermal Envelope Materials:** Insul-Tarp under-slab reflective insulation was evaluated in accordance with the thermal performance requirements of **s. Comm 22.03(2)(a)4**.
- **Vapor Retarders:** Insul-Tarp under-slab reflective insulation was evaluated in accordance with the requirements for a vapor retarder in accordance with **s. Comm 22.22**.
- **Slab-On-Grade Floors:** Insul-Tarp under-slab reflective insulation was evaluated in accordance with the requirements for slab-on-grade floors in accordance with **s. Comm 22.26**.
- **Envelope Requirements:** Insul-Tarp under-slab reflective insulation was evaluated in accordance the requirements for a heated slab in accordance with **s. Comm 22.21, Table 22.21**.
- **NOTE:** See **LIMITATIONS OF APPROVAL** section.

The **IBC** requirements below in accordance with the current **Wisconsin Amended ICC Code**:

- **Material Properties:** Insul-Tarp under-slab reflective insulation was evaluated in accordance with the thermal performance requirements of **s. Comm 63.1018(2) (a) 2**.
- **Vapor Retarder:** Insul-Tarp under-slab reflective insulation was evaluated in accordance the requirements for a vapor retarder in accordance with **ss. IBC 1403.3 and 1911.1**.
- **NOTE:** See **LIMITATIONS OF APPROVAL** section.

The **IECC** requirements below in accordance with the current **Wisconsin Amended ICC Code**:

- **Moisture Control:** Insul-Tarp under-slab reflective insulation was evaluated in accordance with the moisture control requirements of s. **IECC 502.1.1 [Comm 63.0502(1)]** and **IECC 802.1.2 [Comm 63.0802(2)]**.
- **Heated Slabs:** Insul-Tarp under-slab reflective insulation was evaluated in accordance the requirements for heated slabs in accordance with s. **IECC 502.2.4.11**.
- **NOTE: See LIMITATIONS OF APPROVAL section.**

DESCRIPTION AND USE

Insul-Tarp under-slab reflective insulation is a composite product which integrates closed cell foam, an aluminum reflective material with a protective poly coating all within three thin layers.

TESTS AND RESULTS

Test data on Insul-Tarp under-slab reflective insulation was submitted to the department in accordance with the following standards:

- ASTM C518, Standard Test Method by Means of The Heat Flow Meter Apparatus. **NOTE: See LIMITATIONS OF APPROVAL section.**

LIMITATIONS OF APPROVAL

GENERAL: Insul-Tarp under-slab reflective insulation can be installed but, no credit will be given as under-slab insulation.

INSUL-TARP UNDER-SLAB REFLECTIVE INSULATION SHALL NOT BE INSTALLED AS A STAND ALONE PRODUCT IN LIEU OF THE CURRENT CODE REQUIREMENTS.

This approval will be valid through December 31, 2011, unless manufacturing modifications are made to the product or a re-examination is deemed necessary by the department. The product approval is applicable to projects approved under the current edition of the applicable codes. This approval may be void for project approvals made under future applicable editions. The Wisconsin Building Product Evaluation number must be provided when plans that include this product are submitted for review.

DISCLAIMER

The department is in no way endorsing or advertising this product. This approval addresses only the specified applications for the product and does not waive any code requirement not specified in this document.

Revision Date:

Approval Date: November 29, 2006 By: _____

Lee E. Finley, Jr.
Product & Material Review
Integrated Services Bureau